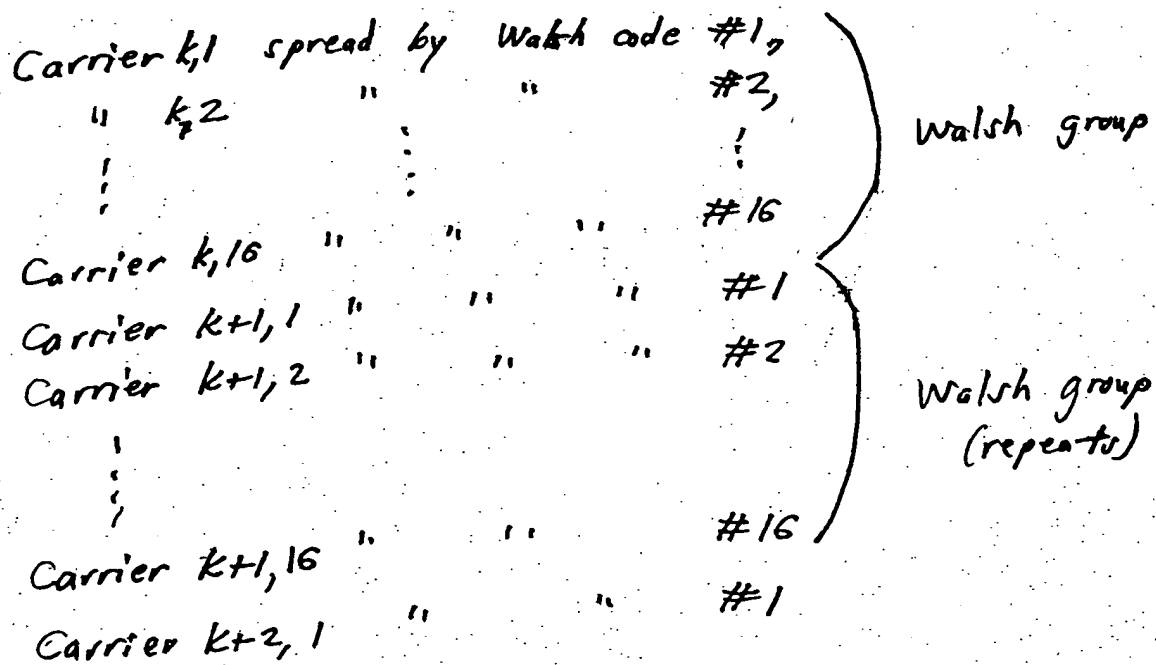


Fig. 1. Spectral Plot of Typical MASS Signal.



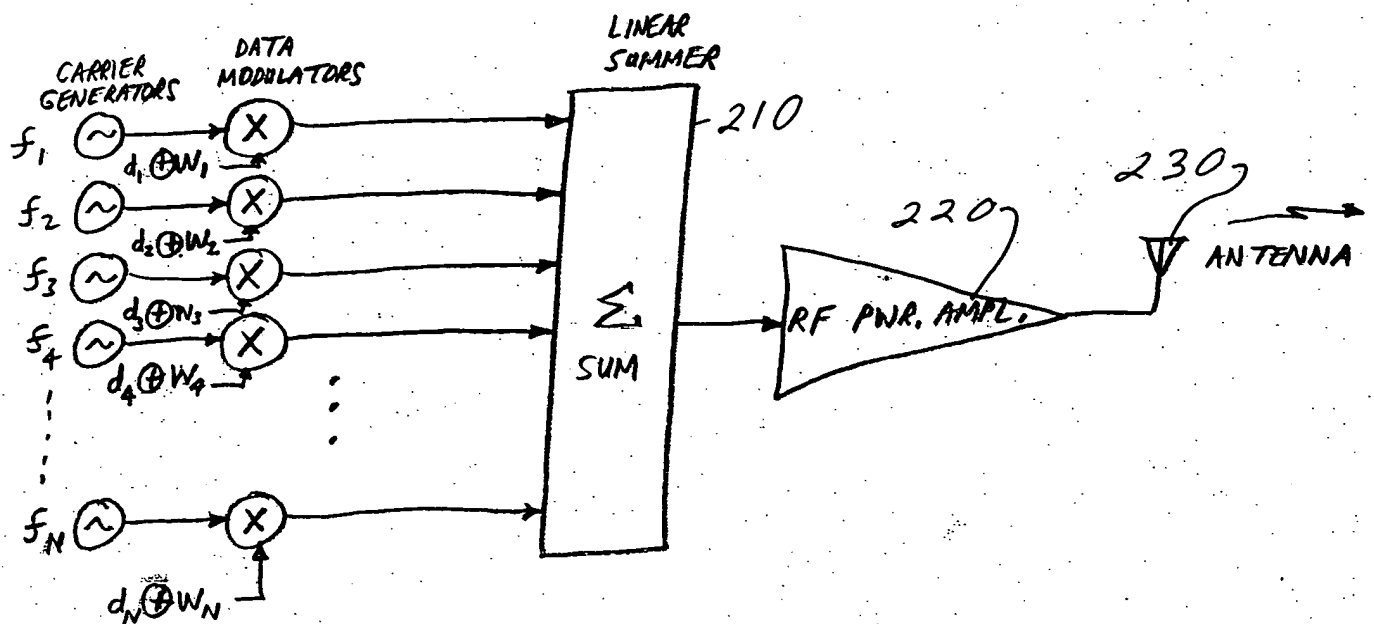


Fig. 2. Typical MOSS Transmitter Block Diagram.

Channel n data : d_n

Channel n Walsh sequence : W_n

Composite channel - n modulation : $d_n \oplus W_n$
(XOR = binary multiplication)

Total OFDM channels : $N = 2^m$

Total Walsh set (length) L , where $L = 2^l$

Total groups : $\frac{N}{L} = \frac{2^m}{2^l} = 2^{m-l}$

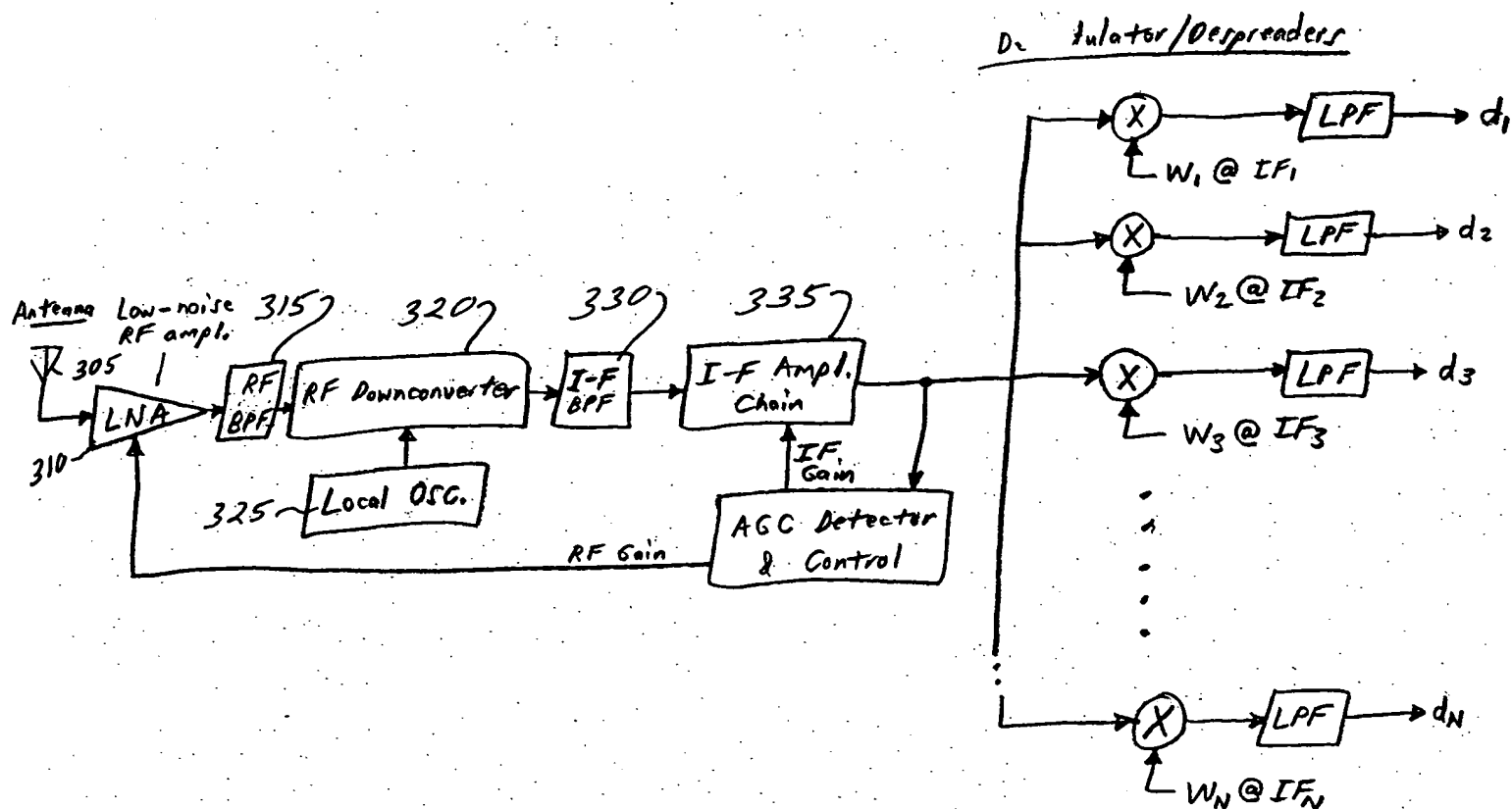


Fig. 3. Typical MOSS Receiver Block Diagram.

I-F channels IF_1, IF_2, \dots, IF_N generated by synthesizer or implemented in DSP.

W_1, W_2, \dots, W_N are Walsh codes 1-N.

" $W_1 @ IF_1$ " represents Walsh code #1 modulated onto IF channel 1 local carrier.

Fig. 41

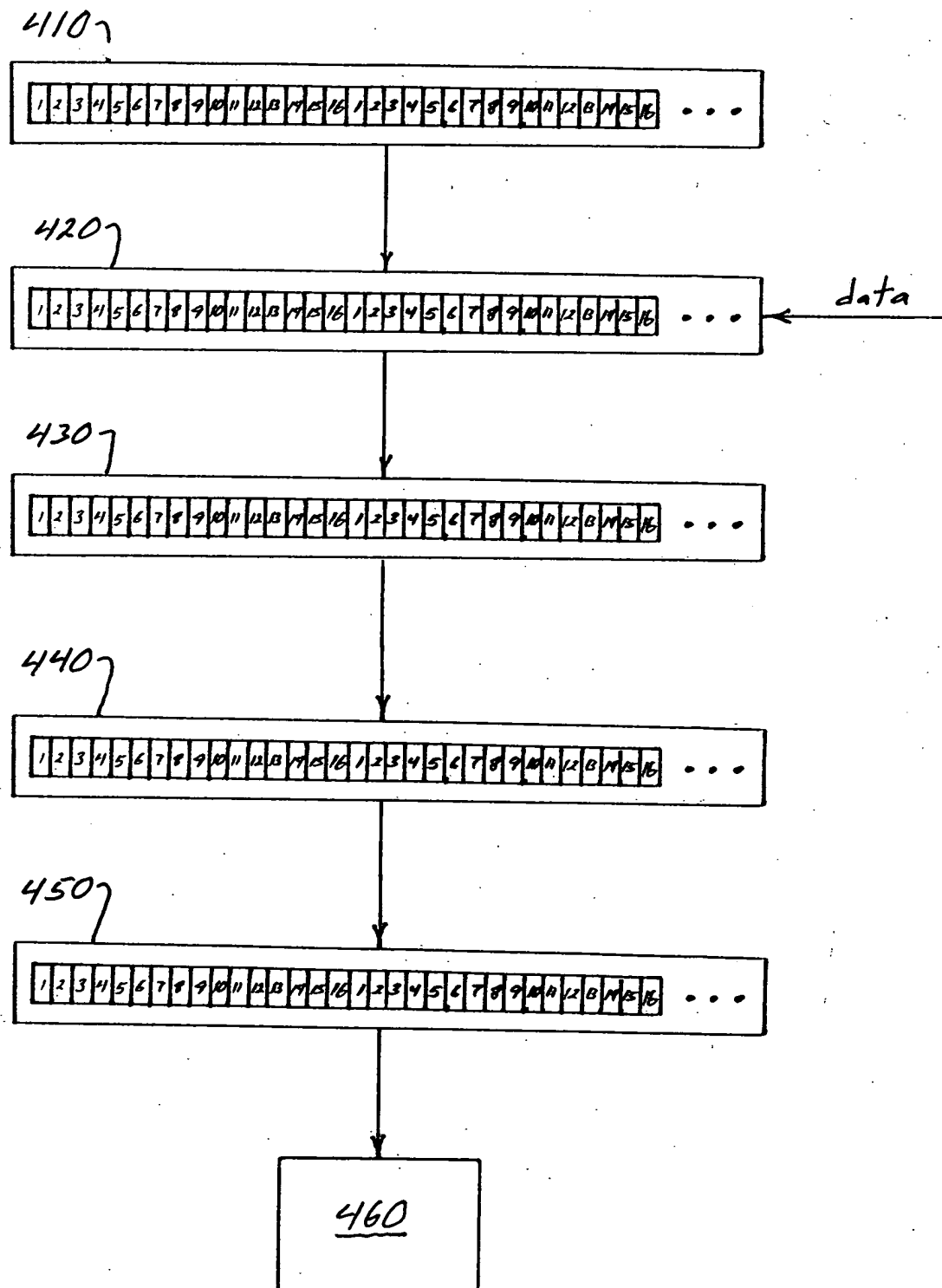


Fig. 5

